浙江镭石光电科技有限公司

Zhejiang Lasy Science and Technology Co,.Ltd

E-light Beauty Equipment

USER'S MANUAL

MODEL: E-Angel

Before operating this machine,

Please read this manual carefully,

Retain it for future reference.

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lasybeauty@lasylasercn.com

For your safety

Before open the machine,you must fill the water to this machine until the water automatically come out of overflow,means the water is full of water tank. or it will easily make it broken.

(1).Keep any reflecting things out of the operating room,such as mirror,watch,jewellery...
(2).Operator and the patient must wear the professional protective glasses and googles.
(3).Any intense pulsed light without correct using can injure the body. In the course of working,the device will produce high pressure.So every operator should keep warning, operating according to this introduction.
(4).Patient:Well-trained operator and appropriate disposal treatment room is very necessary and important.Moreover,the patient should also know the treatment theory and wear the professional protective eyepatch, protecting eyes from burning.
(5).Operator:Durng the treatment, it's possible to touch the intense pulsed light,so it's necessary to wear the professional protective glasses.
(6).Treatment room: the room must clear mark "using intense pulsed light"
(7).Except the authorized mechanic, anyone have no right to examine and repair the machine,especially the inside of device that including electrical source, cooling system,optical organs and treatment head.Notice the dangerous high pressure inside.
(8).Make sure whether it's accordant to your resident voltage or not.
(9).Maintenance must after turning off the device and drawing out the electrical source line.Or it's most possible to injure people and damage the equipment.
(10).Keep the filter and the probe clean.
(11).Stop turning on when finding slack from treatment head. If turning on, close right now.
(12).Over light energy could burn skin, that results in atrophy or pigment deposit.
(13).Do not directly see the intensed pulsed light during treatment,even wearing the protective glasses and eyepatch.
(14).Do not allow to point the treatment handpiece to the air.Generally,hang it in the bracket of the machine.
(15).High pressure inside the equipment. It's possible to deposit electricity in some parts even after switching off. So it's not allowed to open equipment beyond the authorized mechanics.
(16).When maintaining, please close power, cover board, and observe in person.
(17).Total weight is a little heavy, so please take care when moving.
(18).The temperature will raise after absorbing light energy, so please take actions to reduce the flammable risk on treatment parts or around area.
(19).Do not use ethanol, acetone or other flammable things on skin before treatment.If necessary,please use soap or water.
(20).When listerizing the treatment head or other parts in ethanol, please wait till dry

Who is forbidden?

1.People who are allergic to light.

2.Pregnant women,Diabetes suffers,cardiac patients,people with Hypertension,Epilepsy and skin cancer.

3.People with cardiac pacemaker and defibrillator.

4.People whose treatment parts are damaged.

5.People are just back from the beach.The skin is very weak after the exposure in the sun in this time.

6.People have taken some photosensitive food or drug recently.

Important Information

This user's guide contains important information on the use and operation of this machine.Please read all the information carefully for optimal performance and to prevent any damage to or misuse of the machine.Any changes or modifications not expressly approved in this user's guide could void your warranty for this equipment.

❖ Accessories

Check to make sure you have all parts shown below.

Fileter E-light handle Key

Remarks:

1.Power line:to connect machine
2.Foot switch:for operation
3.Treatment handpiece:for treatment
4.Trips:part of the treatment head
5.Protective glasses:for operator; Protective goggles:for patients
6.Keys:main switch to open and close the machine
7.Watering bottle:for filling water to the machine

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Front of the Machine

Picture one

Pay attention:

1.Place the device on the level ground.(If there's water on the surface of the device,please

wait till dry then input water to test).Keep 22℃-28℃ temperature and the humidity not more than 20% in the treatment room.

a. If there's something hurt suddenly happened,press down the Red button(Emergency switch) at once.**If you do not move the machine to long distance place,do not press down the emergency button.**When you finish the treatment,just close the key switch and pull out the power line rear of this machine.

3.**Gently** turn the **Emergency switch**(red button) towards right before opening key switch.Usually the button will bounce at once,If not,you should continue to revolving the red button until it's absolutely bounce.

E-Light Beauty System

Theory

It combines three advanced technologies: Bipolar Radio Frequency + IPL +Skin Contact Cooling.

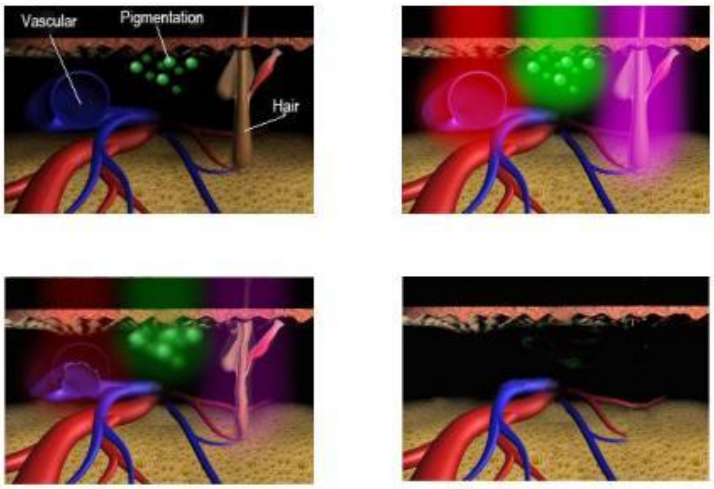
When the three are united in one treatment, wonderful treatment experience and result can be expected. The energy of Radio Frequency can reach the middle and deep layer of the skin and heat up tissue, thus, lower energy is applied during the IPL treatment. Uncomfortable feeling during the IPL treatment will be decreased significantly and better result can be expected. In addition, cooling system involved in E-light can also ease the uncomfortable feeling.

The absorbing of the energy of radio frequency is not concerned with melanin. So, the E-Light treatment can get good result on the soft or thin hair so as to decrease the risk caused by traditional IPL treatment.

What is IPL (Intense Pulsed Light)?

IPL is a non-invasive skin treatment that emits powerful bursts of light energy to treat sun-damaged skin, wrinkles, and unwanted hair growth, etc. without damaging the surface of your skin.

IPL systems use hand held flash lamps to emit micro pulses of light across a broad band of visible wavelengths. By using gentle pulses of light momentarily to create heat, IPL can permanently disable hair follicles.and prevent future growth. Similarly, IPL also achieves excellent long term results when treating thread veins, skin pigmentation, acne and other skin complaints.



Application Range

1.Remove undesired hair permanently from various areas of the body for all kinds of hair color;
2.Remove speckles\age spot\sun-induced freckles from various types of skin;
3.Remove facial vascular lesions;
4.Skin rejuvenating and lessen deep wrinkles;
5.Tighten skin and remove acne.
6.Skin whitening.

Advantage

1.Remarkable effects on fuscous spot and live spot
2.Great effect on unwanted hair removal, both thick black hair and tiny hair, and comfortable during the treatment
3.Avoid burn, pigment mark and blister during former IPL treatment
4.Wide range of treatment, great effect, and with high safety factor
5.Large color touch screen, comfortable and elegant
6.Breakthrough based on traditional IPL technology

➢ Operation Steps

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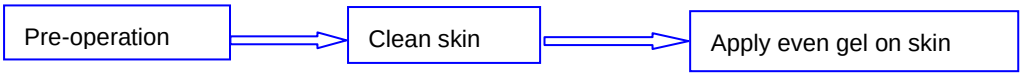
1.There's five modes in all,take skin rejuvenation as an example:



2.Start to operate

2.1 Choose filter for Skin rejuvenation 530nm,set up it to the treatment head

2.2Choose the treatment mode,touch the Key [skin rejuvenation]

2.3 Begin to operate after touch the [Standby] first,at this time, [Ready] will show you.

Pay attention:the treatment head must close to the surface of skin,gently press down the green or yellow button of the treatment head.Of course you could also use foot touch to operate.in this case,you do not need to press down two buttons of the head.Just steps on the E-light foot switch.

If you finish this operation:

Step one:you just need to touch this [Ready] key,then back to **Pic.3**.

Step two:turn off the key switch ,you need to turn the key to left.

According to the above statement, other treatment modes can be operated like it.

The technical parameters of operation

*640nm,690nm--Hair Removal
*530nm--Pigmentation Therapy,Spots Removal,Skin Rejuvenation
*580nm,590nm--Vascular Therapy
*480nm,430nm--Acne Treatment
Pay attention:the filters above are optional

Pay Attention:
The parameters above are just as your reference,you'd better start a little smaller energy the first operation,then ask the patients if they feel like a slight tingling or a pinch similar to the snap of a rubber band.IF yes,continue to treat,or you try to increase the parameters gradually two by two,like 10/12/14...For first treatment,we suggest IPL energy start from 6.You'd better repeat to shot the same treatment area.

Hair Removal

First Pulse	Increment	Pulse number	Pulse delay	Frequency	IPL Energy	RF Energy
4	4	5	3	2	20	5
blacker&thicker hair,smaller first pulse,longer pulse delay						
4	5	5	3	2	22	6
light-colored&thin hair,longer first pulse,shorter pulse delay						

Hair Removal

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a. one course in all,every months as one treatment,4-6 treatments in all.Usually,very significant effect will show you after 2-3 treatments. For thick hairs,it needs 3 treatments.For soft and thin hair,it needs 5 treatments.Treatment time:For two arms:in 1.5 hours;For two legs:in 1.5 hours;For armpit hairs:in 30 minutes.

d. Effect of cooling gel: cooling and light transporting

e. Usage: spread the cooling gel on the treatment area before treatment, about 3mm thickness; 20 minutes after the treatment, scrape the cooling gel, or cooling with ice for 10-20 minutes

f. Operating sequence: shave away unwanted hair or shear the unwanted hair, 1-2mm to the hair root first,then Clean skin and spread cooling gel on the treatment area; after the treatment, make an ice cooling treatment.

Skin Rejuvenation(530nm)

First Pulse	Increment	Pulse number	Pulse delay	Frequency	IPL Energy	RF Energy
3	4	3	3	2	13	4
darker skin,smaller energy,long pulse delay						
4	4	4	2	2	15	4
whiter skin,higher energy,short pulse delay						
4	4	4	2	2	13	4
rough skin,bigger first pulse						
4	5	4	2	2	14	4
smooth skin,smaller first pulse						
4	5	4	2	2	16	4
thick&good skin,higher energy						
3	4	3	3	2	13	4
thin&poor texture skin,smaller energy						
5	5	4	2	2	12	5
eye pouch,wrinkles,course pores						

Skin Rejuvenation

a. one course in all,every 3 weeks one treatment,4-6 treatments in all.Usually,very significant effect will show you after 2-3 treatments.For face treatment,it needs about 30 minutes.

b.Pre-operation:deeply skin cleaning,remove acne,blackhead

c. Feelings in the treatment: Swollen feelings inside skin.A little inflamed feelings on skin after the treatment.

d. Effect of cooling gel: cooling and light transporting

e. Usage: spread the cooling gel on the treatment area before treatment, about 3mm thickness; 20 minutes after the treatment, scrape the cooling gel, and cooling with ice for 10-20 minutes

f. Operating sequence: Clean skin and spread cooling gel on the treatment area; after

the treatment, make an ice cooling treatment.

Acne Treatment(480nm)

First Pulse	Increment	Pulse number	Pulse delay	Frequency	IPL Energy	RF Energy
4	5	4	3	2	16	5
very severe acne						
3	5	4	3	2	15	4
mild acne						

Acne Treatment

a. 1-2 course.(very serious skin problems,it needs 2 course),3 weeks one treatment.4-6 treatments in all,very significant effects show after 2-3 treatments.

b. Pre-operation:deeply clean skin.

c. Feelings in the treatment: very Swollen feelings inside skin.A little painful inflamed feelings on skin after the treatment.

d. Effect of cooling gel: cooling and light transporting

e. Usage: spread the cooling gel on the treatment area before treatment, about 3mm thickness; 20 minutes after the treatment, scrape the cooling gel, and cooling with ice for 10-20 minutes

f. Operating sequence: Clean skin and spread cooling gel on the treatment area; after the treatment, make an ice cooling treatment.

Vascular Therapy(530nm)

First Pulse	Increment	Pulse number	Pulse delay	Frequency	IPL Energy	RF Energy
4	4	4	2	2	14	6
rough&bigger vascular,longer first pulse						
5	3	4	2	2	18	7
smaller vascular,smaller first pulse						
4	4	4	2	2	15	6
red face,bigger first pulse						

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Vascular Therapy

a. 4-6 treatments as one course,3 weeks apart,one or two course in all.Very obvious effects will show you after 2-3 treatments.

b. Feelings in the treatment: Swollen feelings inside skin.A little inflamed feelings on skin after the treatment.

c. Effect of cooling gel: cooling and light transporting

d. Usage: spread the cooling gel on the treatment area before treatment, about 3mm thickness; 20 minutes after the treatment, scrape the cooling gel, and cooling with ice for 10-20 minutes

e. Operating sequence: Clean skin and spread cooling gel on the treatment area; after the treatment, make an ice cooling treatment.

Pigmentation Therapy(530nm)

First Pulse	Increment	Pulse number	Pulse delay	Frequency	IPL Energy	RF Energy
4	5	4	2	2	14	5
darker skin,smaller energy,long pulse delay						
3	5	3	3	2	16	6
light-colored spots,poor skin texture						
4	5	4	2	2	14	5
darker spots,good skin						
3	5	3	3	2	14	5
darker spots,poor skin texture						
4	5	5	2	2	14	5
light-colored spots,good skin						
4	5	5	2	2	14	5
whiter skin,higher energy,shorter pulse delay						

Pigmentation Therapy

a. 1-2 course(2 course is for very serious skin problems,like serious chloasma),3-4 weeks one treatment,4-6 treatments in all.

b.Treatment symptoms:the freckles become darker after one treatment,the treatment area will be red,the freckles will gradually be light and drop off.

c.Feelings in the treatment:some pain feelings like needle pricking. In one week after the treatment, spots will be darker first.Usually after one cycle treatment,the perfect results will show you.ffect of cooling gel: cooling and light transporting

e.Usage: spread the cooling gel on the treatment area before treatment, about 3mm thickness; 20 minutes after the treatment, scrape the cooling gel, and cooling with ice for

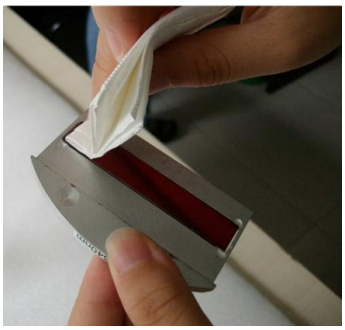
10-20 minutes

f.Operating sequence: Clean skin and spread cooling gel on the treatment area; after the treatment, make an ice cooling treatment.

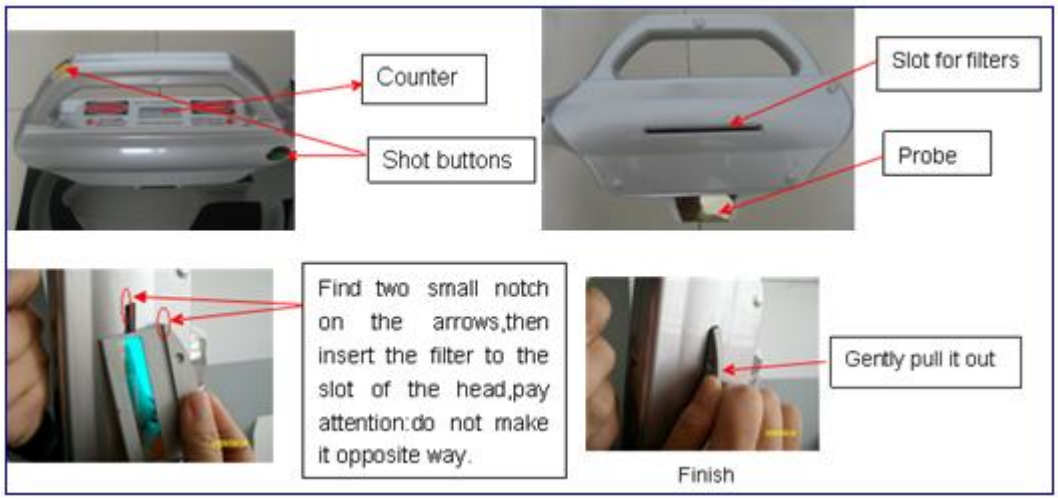
Maintenance

1.No stress on the Screen, prevent from breaking up

2.Keep the filters and probe clean,do not let the cooling gel enter into probe. We suggest you slightly clean the filters' wafer after each treatment with soft and clean paper towel,if it's very dirty on its wafer,please Dip the paper towel in a little dehydrated alcohol.then clean it.just as follows:



1.Filters and Treatment head


Counter
Shot buttons
Slot for filters
Probe
Find two small notch on the arrows,then insert the filter to the slot of the head,pay attention:do not make it opposite way.
Gently pull it out
Finish

❖ Operation

1.**Normal watering**:Screw off the little screw cap from overflow,then Input water(pure water or distilled water):Connect the watering bottle and inlet well,when there's water automatically spill from the overflow,means the water is full of the water tank,at this time you have to keep the outlet closed.

1.1 Change the water inside of the machine every 10-15 days if you use the machine very often.

1.2 When changing water,just screw off the screw of outlet.(You'd better put a water container under it)

1.3 Our Apparatus is equipped with powerful cooling system,after five minute's working,you have to filling water again till there's water automatically spill from the spilt hole.For this new machine,if the probe is very hot in the beginning 10 seconds working,please do not hesitate to close it right now.Then shaking this treatment head 3

times over your head,in this case,the water of the head will flow back into water tank.If the probe is still hot,you can just repeat this action.Please never power on the equipment if you do not fill water in it.

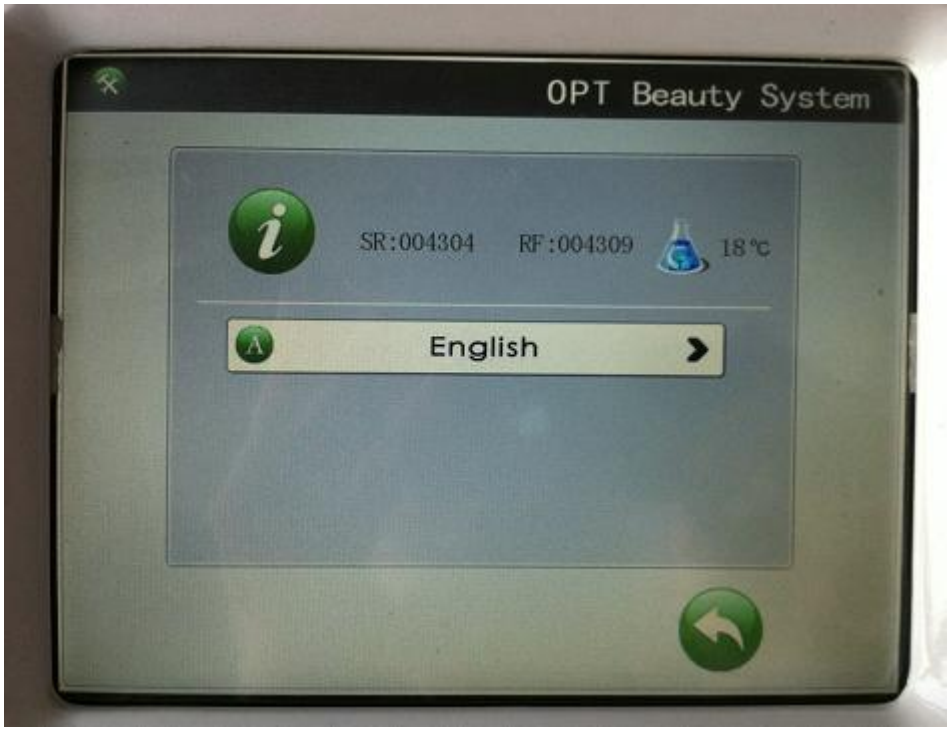
2.Insert the relevant filter to the E-light treatment handle,then turn on the key switch.After that,please observe the water circulation inside the device.Normally, you will hear the sound of water flow. The probe runs cold in 1-2 minutes,at this time,you have to turn on the cooling switch at the rear of this machine,just press it. If the treatment head is too cooling,then please turn off it for a while.

2. steps operation

Turn on the key switch,the screen will show you as follows:

2. Press any point on the screen ,the screen will show you as follows:

3.press **to come into the following setting screen:**



press return back to the picture 2.

There are six modes:hair removal, skin rejuvenation ,pigmentation therapy, vascular therapy, acne therapy, wrinkle removal. Choose any one that you want to do, let us take

hair removal for example.

Pre-operation

1.clean skin, record detail skin conditions.

2.remover the hair of the treatment area.

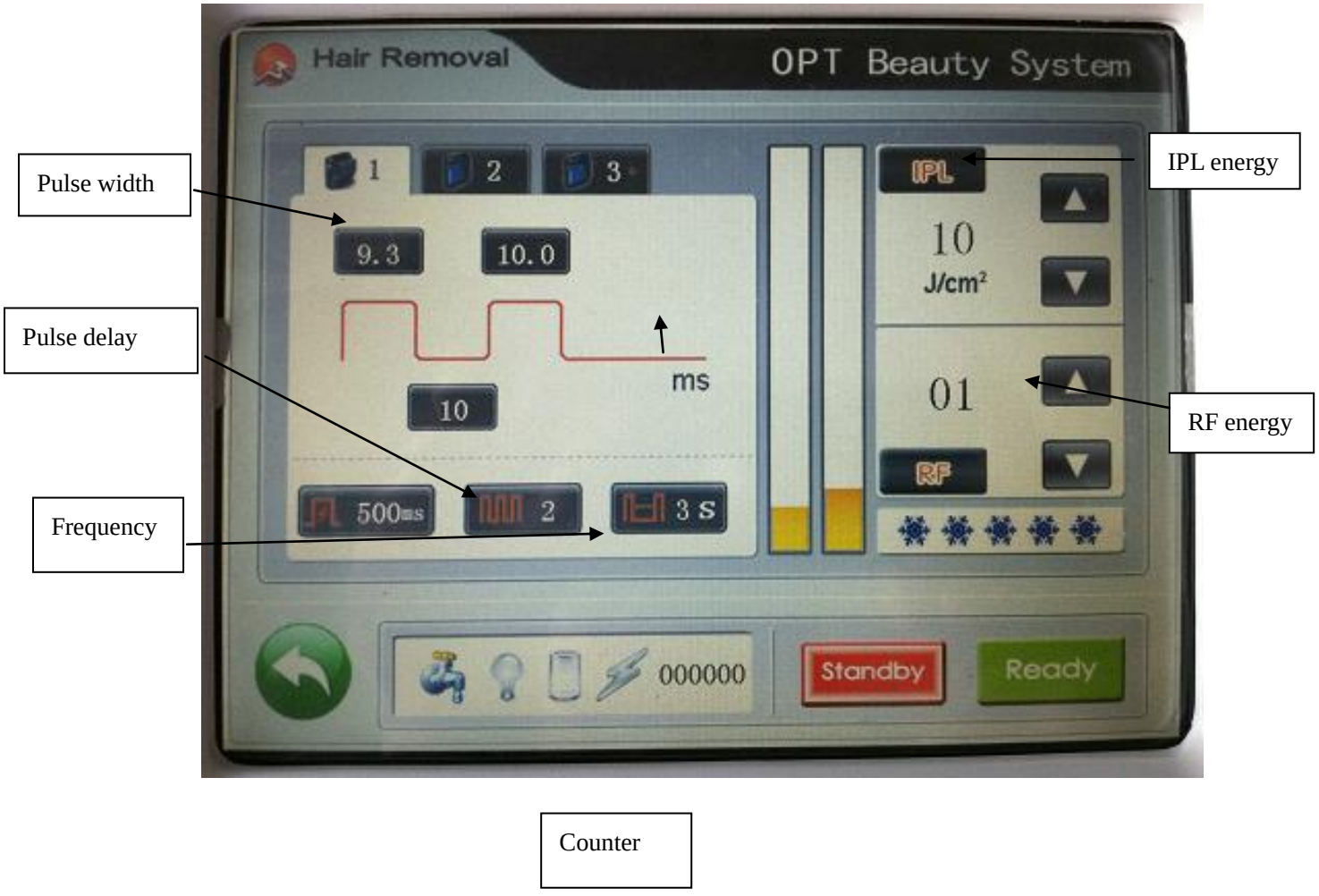
3.spread cooling gel on the treatment area, about 3-5mm.

2.Start to operate

2.1 Choose filter for hair removal 640nm,set up it to the treatment head

2.2Choose the treatment mode,touch the Key [hair removal]

2.3Adjust the parameters according to the feeling of patient



saving buttons, after adjusting the parameters ,touch any saving button,this parameters can be saved in it, then you can receive the

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parameters by touch the saving button.

press to increase or decrease energy of IPL and RF.

adjust cooling lever.

When you adjust the pulse width,pulse delay and frequency,you should touch the button needing adjust ,then touch the

2.4 Begin to operate after touch the

first,at this time, then will be lighted

Pay attention:the treatment head must close to the surface of skin,gently press down the green or yellow button of the treatment head.Of course you could also use foot touch to operate.in this case,you do not need to press down two buttons of the head.Just steps on the E-light foot switch.

2.5If you finish this operation:

Step one:you just need to touch this

key,then will be off.

Step two: touch to turn back to picture 2.

Step three: turn off the key switch , you need to turn the key to left.

According to the above statement, other treatment modes can be operated like it.

Warns after treatment and Maintenance

❖ **Warnings after treatment**

1.Pay attention:In one month after treatment,the patient should use sunscreen SPF15,when going out,you'd better take an umbrella and wearing a hat in case of sunburn.If your skin expose in the sun,it will increase the regeneration rate of melanoma,directly result in excessive pigmentation.

2.You should often use moisture mask to supply water to your skin.Keep your skin retain water.You'd better use a mask before treatment.

3.Do not make up immediately after treatment.You'd better use the pure biological skin care products,not chemical products and the silty cosmetics.If there's flare on treatment area,a doctor should be notified immediately and stop make-up.Take some VitC or VitE.

4.Treatment course:6-8 times as one course,2-3 course in all.The next treatment should be carried out after 3 weeks .After one course treatment,the problems such as age spots,spots,ect will be solved,the skin becomes shiny and flexible.
5.As physical differences in personal,individual customers may be temporary discomfort,small blisters,pigmentations,flare,in this case,we suggest you use ice pack for 30 minutes,you can make up 5 days later after treatment.

❖ **Maintenance**

1.No stress on the Screen, prevent from breaking up
2.Keep the filters and probe clean,do not let the cooling gel enter into probe.
3.The handle is fragile, please take care when pick up and dropt it in the bracket.
4.Every 15 days to change the water. After changing water, please make sure water circulate normally before usage. If the probe continuing be in high temperature after continuing working too long.you could change half of water from the machine.In this case,the temperature will reduce at once.
5.To keep the powerful energy,we suggest you change the water after 3000 shots.
6.Please check the surface of treatment head if there's attachement object after treatment,if so,please lightly clean it with lens paper or absolute alcohol.

❖ **Malfunction and solutions**

1.No power supply:
a.Check up whether there is power sup
b.Check up whether the power line is connected well.
c.Check up the fuse, which could be pulled out at the bottom of hole for power plug.
d.Check up if you open the key switch and emergency switch.
Solution:
a.connect well the power line
b.change the fuse;
c.open the key switch and release the emergency switch button
2.Non-Refrigeration after opening the machine:
a.cooling electric source is broken
b.Semiconductor is broken
c.there's air in the treatment head,non well water circulation
Solution:
Contact us directly

3.Treatment Head leakage:
a.the srews of the head loose
b.the water pipe inner of the head has dropped down
c.lamp or crystal of the head is broken
Solution:
Contact us

4.The Treament head can't light on:

a.The head is broken

b.The controller is broken

c.The Power line is broken

Solution:

Contact us

No Flashing

a.Do not control well of the switch on the treatment head

b.Make the wrong operation

c.The controller is broken

d.The power line is broken

e.Need to change a new treatment head.

Solution:

Contact us